

EV549569768

PTO/SB/17 (12-04)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/769,543
Filing Date	January 30, 2004
First Named Inventor	Tilton et al.
Examiner Name	Boris Leo Chervinsky
Art Unit	2835
Attorney Docket No.	IS9-020

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): #147376

☒ Deposit Account Deposit Account Number: 23-0925 Deposit Account Name: Wells St. John P.S.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims - 20 or HP = Extra Claims x Fee (\$) = Fee Paid (\$)
HP = highest number of total claims paid for, if greater than 20
Indep. Claims - 3 or HP = Extra Claims x Fee (\$) = Fee Paid (\$)
HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets - 100 = Extra Sheets / 50 = Number of each additional 50 or fraction thereof x Fee (\$) = Fee Paid (\$)

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: Information Disclosure Statement

Fees Paid (\$)

\$180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 32,356	Telephone 509/624-4276
Name (Print/Type)	Mark W. Hendricksen	Date	8-8-05

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. 10/769,543
Filing Date January 30, 2004
Inventor Tilton et al.
Assignee Isothermal Systems Research, Inc.
Group Art Unit 2835
Examiner Boris Leo Chervinsky
Attorney Docket No. IS9-020
Title: Three Dimensional Packaging and Cooling of Mixed Signal, Mixed
Power Density Electronic Modules

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. §§ 1.56, 1.97 AND 1.98


In compliance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, your attention is directed to the United States patents and other references listed on the attached Form PTO/SB/08A-08B. No admission is made regarding whether all the submitted references are prior art.

Copies of the cited art are included with the exception of United States patents and published United States applications (1273 Off. Gaz. Pat. Off. 55, 05 August 2003).

Citation of these references is respectfully requested.

Respectfully submitted,

Dated: 8-8-05

By: 
Mark W. Hendricksen
Reg. No. 32,356

08/11/2005 CNGUYEN2 00000011 10769543

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180.00 OP

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.			
Substitute for form 1449/PTO			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			
Sheet 2		of 3	
		Complete if Known	
		Application Number	10/769,543
		Filing Date	January 30, 2004
		First Named Inventor	Tilton et al.
		Art Unit	2835
		Examiner Name	Boris Leo Chervinsky
		Attorney Docket Number	IS9-020

[illegible][illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/769,543
		Filing Date	January 30, 2004
		First Named Inventor	Tilton et al.
		Art Unit	2834
Examiner Name	Boris Leo Chervinsky		
Sheet 3 of 3	Attorney Docket Number	IS9-020	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	25	Advanced Thermal Management System for General Motors Power Inverter Module	
	26	Ray, W.F., et al., "High Performance Switched Reluctance Brushless DC Drivers", IEEE Transactions On Industry Applications, Vol. 1A-22, p. 722, 1986.	
	27	Bose, B.K., et al., "Microcomputer Control of Switched Reluctance Motor", IEEE Transactions On Industry Applications, Vol. 1A-22, p. 708, 1986.	
	28	Moallem, M., et al., "Effect of Rotor Profiles on the Torque of a Switched Reluctance Motor", IEEE Transactions On Industry, Applications, Vol. 28, p. 364, 1992.	
	29	Harris, M.R., et al., "Review of the Integral-Horsepower Switched Reluctance Drive", IEEE Transactions On Industry Applications, Vol. 1A-22, p. 716, 1986.	
	30	Tilton, D.E., Charles, C.L., Pais, M.R., and Morgan, M.J., "High-Flux Spray Cooling in a Simulated Multichip Module", HTD Vol., 206-2, pp. 73-79, ASME National Heat Transfer Conf., August 9-12, San Diego, CA, 1992.	
	31	Tilton, D.E., Chow, L.C., and Mahefkey, E.T., "High Power Density Evaporative Cooling", AIAA-87-1536, 22nd AIAA Thermophysics, Conference, Honolulu, Hawaii, June 1987.	
	32	Tilton, D.E., Ambrose, J.H., and Chow, L.C., "Closed-System, High-Flux Evaporative Spray Cooling", SAE Paper 892316, Aerotech 89, Anaheim, CA.	
	33	Tilton, D.E., Spray Cooling, Ph.D. Dissertation, University of Kentucky, Dept. of Mechanical Engineering, 1989.	
	34	Tilton, D.E., Chow, L.C., Mahefkey, E.T., and Switzer, G., "Critical Heat Flux Phenomena in Spray Cooling", AIAA Paper 90-1729, AIAA/ASME 5th Joint Thermophysics and Heat Transfer Conf., Seattle, WA, June 18-20, 1990.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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